

CLAIMS

1. A contact system for each pole of a power circuit breaker surrounded by a switching device housing (18),
 - consisting of fixed contacts (4) across from each other, of a rotary contact bridge (6) that electrically connects or disconnects the fixed contacts (4), of a breaker shaft segment (14) in which the rotary contact bridge (6) is pivotably mounted, and of contact force springs (24) configured as pressure springs that engage between the breaker shaft segment (14) and the rotary contact bridge (6),
 - whereby the rotary contact bridge (6), the breaker shaft segment (14) and the contact force springs (24) constitute components of a tilting snap-action mechanism that holds the rotary contact bridge (6) in a repulsed position after the fixed contacts (4) have been electrodynamically repulsed,
characterized in that
 - as another component of the tilting snap-action mechanism, two rockers (26) are mounted so as to tilt on the rotary contact bridge (6) parallel to its rotation-symmetrical axis (8),
 - the contact force springs (24) are supported between the breaker shaft segment (14) and the rockers (26),
 - the spring longitudinal axes (48) of the contact force springs (24), the tilting axes (50) of the rockers (26) and the rotation-symmetrical axis (8) all lie in the tilting point plane (52) of the tilting snap-action mechanism, and
 - the rotary contact bridge (6) is mounted in the breaker shaft segment (14) by means of a bearing axis (12) and a slot bearing (16) whose longitudinal axis includes at the maximum an acute angle, with the tilting point plane (52) perpendicular to the bearing axis (12).

2. The contact system according to the preceding claim, characterized in that the contact force springs (24) are mounted with their spring ends (46) close to the contact bridge in receiving bores (38) formed on the rockers (26).
3. The contact system according to the preceding claim, characterized in that the rockers (26) are mounted with a bearing leg (32) in the bearing mounts (34) on the narrow side of the rotary contact bridge (6), followed by rocker webs (30) on both sides of the bearing leg (32), said rocker webs (30) protruding beyond the bearing leg (32) towards the rotation-symmetrical axis (8) and each having one of the receiving bores (38).
4. The contact system according to any of the preceding claims, characterized in that holding nubs (42) and/or holding depressions (40) are configured in the breaker shaft segment (14) for the spring ends (44) that are far from the contact bridge.
5. The contact system according to one of the preceding claims, characterized in that stops (56) located across from each other are configured in the switching device housing (18) in order to limit the repulsion movement of the rotary contact bridge (6).
6. The contact system according to one of the preceding claims, characterized in that the rotary contact bridge (6) is mounted on the bearing axis (12) with a circular-cylindrical bearing bore (10) and the bearing axis (12), in turn, is mounted in lateral slots (16) in the breaker shaft segment (14).
7. The contact system according to one of the preceding claims, characterized in that the slot longitudinal axes (54) lie in the tilting point plane (52).